S/226/62/000/001/010/014
1003/1201

1,1600

Author Kharchenko, V. K.

Title THE STRENGTH OF METAL POWDER FILTERS AT LOW TEMPERATURES

Periodical: *Poroshkovaya metallurgiya*, no. 1(7), 1962, 65–67

Text: A simple and reliable device for testing metal powder filters is described. New experimental data on the strength of nickel powder filters at low temperatures (up to – 196°C) have established a substantial increase in the strength of nickel powder materials with decreasing temperature. There are 2 figures and 1 table.

Association Institut metallokeramiki i special'nykh splavov AN UkrSSR (Institute of Powder Metallurgy and Special Alloys AS UkrSSR)

Submitted: September 1, 1961

Card 1/1

18.1200

39514
S/226/62/000/002/009/010
I003/I203

AUTHOR: Kharchenko, V. K. and Struk, L. I.

TITLE: Some data on the influence of temperature on the strength and plasticity of refractory compounds

PERIODICAL: Poroshkovaya metallurgiya, no. 2, 1962, 87-91

TEXT: The investigation of physicochemical properties of refractory compound-base alloys in a wide temperature range is necessitated by their increasing use as constructional materials as elevated temperatures. This work investigates the regularity of variation of strength of titanium carbide, molybdenum carbide and zirconium boride under short-time static loads at temperatures from 20°C to 2500°C. Titanium and molybdenum carbides were found to have a maximum bending strength at 0.6 of their melting points. The plasticity of titanium carbide was found to increase with temperature and to reach considerable values at 2200–2400°C, while molybdenum carbide and zircomium boride showed no such effect. There are 5 figures.

ASSOCIATION: Institut metallokeramiki i spetsial'nykh splavov AN USSR (Institute of Powder Metallurgy and Special Alloys AS UkrSSR)

SUBMITTED: December 14, 1961

Card 1/1

The long [illegible] hardness [illegible] The E modulus at 24° [illegible] The max mum [illegible] The effe [illegible] temperature depende [illegible]

ENCL [illegible]

L 22998-66 EWT(d)/EWT(m)/EWP(w)/EPF(n)-2/EWP(v)/T/EWP(t)/EWP(k)/EWP(h)/EWP(l)

ACC NR: AT6008643 JD/JG/GS(A) SOURCE CODE: UR/0000/65/000/000/0007/0013

AUTHORS: Pisarenko, G. S. (Academician AN UkrSSR) (Kiev); Kharchenko, V. K. (Kiev); Dubinin, V. P. (Kiev); Borisenko, V. A. (Kiev); Kashtalyan, Yu. A. (Kiev)

ORG: none

TITLE: Investigation of mechanical properties of high-melting materials at high temperatures in a vacuum and in an inert medium

SOURCE: Vsesoyuznoye soveshchaniye po voprosam staticheskoy i dinamicheskoy prochnosti materialov i konstruktsionnykh elementov pri vysokikh i nizkikh temperaturakh, 3d. Termoprochnost' materialov i konstruktsionnykh elementov (Thermal strength of materials and construction elements); materialy soveshchaniya. Kiev, Naukova dumka, 1965, 7-13

TOPIC TAGS: tungsten, niobium, elastic modulus, elastic stress, elastic deformation, metallurgic testing machine/ UVT-1 metallurgic testing machine, UVT-2 metallurgic testing machine

ABSTRACT: An experimental testing chamber for testing the mechanical properties of high-melting metals in a vacuum and in an inert medium at high temperatures has been developed (see Fig. 1). The temperature dependence of the modulus of elasticity, strength limit, and hardness limit of tungsten and molybdenum were determined. The experimental results are presented graphically (see Fig. 2). It was found that the strength and hardness limit obeyed the expressions of Frantsevich-Vrontskiy and

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L 22998-66
ACC NR: AT6008643

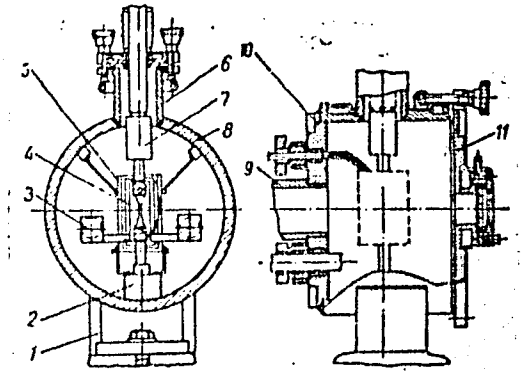

Fig. 1. Working chamber of the installation VTU-2V. 1 - foundation plate; 2 - clamps; 3 - current leads; 4 - specimen; 5 - heating installation; 6 - chamber top; 7 - hinged installation; 8 - body of chamber; 9 - exhaust nozzle; 10 - back cover; 11 - front cover.

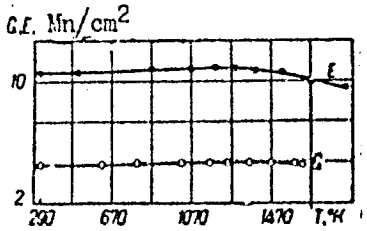

Fig. 2. Dependence of elasticity characteristics of niobium on the temperature. E and G - elastic modulus of the first and second kind respectively.

Ito-Shishokin, shown as $\sigma_n = m_n \sigma_0 e^{-\beta_n T}$, $H = k_n H_0 e^{-\alpha_n T}$,

where T is the temperature in degrees K, σ_0 and H_0 are the values of the strength and hardness limit at 0K, β_n and α_n are the temperature coefficients of the strength

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L 22998-66

ACC NR: AT6009643

and hardness limit, and m_n and k_n are constants. It is concluded that the maximum in the logarithmic decrement of oscillations in niobium at 570K, first observed by M. G. Losinskiy and A. Ye. Fedorovskiy, is related to the penetration of impurities into the niobium lattice. Orig. art. has: 8 graphs and 3 equations.

SUB CODE: 11/ SUBM DATE: 19Aug65/ ORIG REF: 010/ OTH REF: 001

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Card 2/2

SHERSTNYAKOV, V.F.; KHARCHENKO, V.M.

Investigating the flooding of live crude. Nauch.-tekh. sbor.po dob.nefti no. 18:42-48 '62. (MIRA 17:6)

KHARCHENKO, V.M., gornyy inzh.; IGNAT'YEV, N.N., gornyy inzh.

Rock excavation ratio. Gor. zhur. no. 11:34-36 N '60.
(MIRA 13:10)

1. Nauchno-issledovatel'skiy gornorazvedochnyy tsentr Gosplana RSFSR, Moskva.
(Strip mining) (Excavating machinery)

ROMANENKO, P.N. (Moskva); KHARCHENKO, V.N. (Moskva)

Injection of gases into a turbulent boundary layer with a logitudinal pressure gradient and its effect on frictional resistance. PMTF no.1:77-83 Ja-F '63. (MIRA 16:2)
(Frictional resistance (Hydrodynamics)) (Boundary layer) (Gases)

ROMANENKO, P.N.; KHARCHENKO, V.N.

Effect of a transverse mass flow on skin friction and heat transfer in turbulent flow of a compressible gas. Inzh.-fiz. zhur. 6 no.2:52-59 F '63. (MIRA 16:1)

1. Lesotekhnicheskiy institut, Moskva.
(Heat—Transmission)
(Frictional resistance (Hydrodynamics))

ROMANENKO, P.N.; KHARCHENKO, V.N.

Resistance and heat transfer on a permeable surface in the case of gradient gas flow. Inzh.-fiz. zhur. 6 no.11: 9-13 N '63. (MIRA 16:11)

1. Lesotekhnicheskiy institut, Moskva.

L 1988-66 EWT(1)/EWP(m)/EWT(m)/EPF(c)/EWA(d)/EWP(j)/T/FCS(k)/ETC(m)/EWA(1)
RPL RM/WE/WW/JW

ACCESSION NR: AP5022390 UR/0170/65/009/003/0384/0390
536.753

AUTHOR: Romanenko, P. N.; Kharchenko, V. N.

TITLE: Evaluation of the loss of kinetic energy of fluid flow in tubes

SOURCE: Inzhenerno-fizicheskiy zhurnal, v. 9, no. 3, 1965, 384-390

TOPIC TAGS: thermodynamics, irreversible process, chemical separation

ABSTRACT: Using the methods of the thermodynamics of irreversible processes, it is possible to establish the main characteristics of flows of liquids in channels with constant and changing cross sections. Generalized experimental data have permitted the determination of optimal conditions in the operation of a separation column. The present article uses this method to evaluate the loss of kinetic energy of a moving gas in a tube with injection of a homogeneous gas. The mathematical treatment of the problem is carried through in cylindrical coordinates. A figure shows the calculated change in the relative velocity for different rates of gas injection. The velocity drop along the length of the tube decreases with an

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L 1988-66

ACCESSION NR: AP5022390

increase in the blowing (injection) rate and, with large consumptions of the injected gas, the velocity also increases along the length. For the calculation, the velocity of the air flow was taken as 100 meters/sec and the air density was taken to correspond to a temperature of 300°K. Orig. art. has: 23 formulas and 2 figures

ASSOCIATION: Lesotekhnicheskiy institut, g. Moskva (Wood Technology Institute, Moscow)

SUBMITTED: 00 ENCL: 00 SUB CODE: ME, TD

NR REF SOV: 005 OTHER: 002

Card 2/2

EWT(m)/EWT(1)/EWP(e)/EWP(m)/ETC(f)/EPF(n)-2/EWG(m)/EWP(v)/EWP(j)/EWP(b)/EWA(c)/ETC(m)/EWA(1) RPL IG/WW/RM/WH

ACC NR: AP6002006 SOURCE CODE: UR/0170/65/009/006/0816/0833

AUTHOR: Romanenko, P. N.; Kharchenko, V. N.; Semenov, Yu. P.

ORG: Institute of wood technology, Moscow (Lesotekhnicheskiy institut)

TITLE: The effect of coolant injection on heat transfer and friction in the turbulent boundary layer

SOURCE: Inzhenerno-fizicheskiy zhurnal, v. 9, no. 6, 1965, 816-833

TOPIC TAGS: heat transfer, cooling, transpiration cooling, nozzle cooling

ABSTRACT: One of the most effective means for protecting walls from the effect of high temperature gases is transpiration cooling effected by injection of liquids or gases through the porous wall into the boundary layer. This subject is reviewed in the present survey article which covers a total of 86 studies including 35 Soviet works. Cases with chemical reaction in the boundary layer are not considered. Among the Soviet studies reviewed, the following articles deserve mentioning: Three theoretical studies by Motulevich, in which transpiration cooling is analyzed and the integration of the boundary layer equations is attempted. Kutateladze presented analyses, made with the assumption that the sublayer is destroyed and that boundary layer conditions are similar to those at an infinite Reynolds number. These studies yielded relationships for the friction and heat transfer coefficients as a function of the intensity of the coolant injection. Romanenko studied the injection of air,

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UDC 532.526+536.24

L 11654-66

ACC NR: AP6002006

helium, carbon dioxide, and freon-10 into a subsonic turbulent boundary layer on a porous copper plate experimentally. Mugalev's studies with the injection of air and other gases through a porous plate into a sub- or supersonic air stream included methods for calculating the heat and mass transfer. Sergeev studied the intensification of heat transfer by use of coolants, such as water, acetone, benzene, and butanol, which evaporate. Equations for calculating the heat and mass transfer during the evaporation of liquids from porous ceramic plates were derived. Isachenko studied cooling by injecting water through a porous copper plate, and Fedorov measured velocity and temperature fields when water is injected through a porous ceramic plate. Orig. art. has: 5 figures and 20 formulas. [PV]

SUB CODE: 01/ SUBM DATE: 16Jul65/ ORIG REF: 040/ OTH REF: 046/ ATD PRESS: 4175

Card 2/2

NEZHIVENKO, A.K., veterinarnyy fel'dsher (Chigirinskiy rayon, Cherkasskoy oblasti); KHARCHENKO, V.P.; OSIPOV, A.

Prophylaxis and therapy of the poisoning of animals.
Veterinariia 41 no.7:66-67 Jl '64. (MIRA 18:11)

1. Glavnyy veterinarnyy vrach sovkhoza "Miyasskiy", Tyumenskoy oblasti (for Kharchenko). 2. Zaveduyushchiy khimiko-toksikologicheskim otdelom Altayskoy krayevoy veterinarnoy laboratorii (for Osipov).

KHARCHENKO, V.P., mekhanik

How to prevent the leakage of fuel. Mekh. sil'. hosp. 13 no.4: 25 Ap '62. (MIRA 17:3)

1. Kolkhoz "Shlyakh Lenina", Anufriyevskogo rayona, Kirovogradskoy oblasti.

KHARCHENKO, V.P.

Two cases of acute sinistral appendicitis with a complete reverse location of the internal organs. Zdrav. Kazakh. 21 no. 3:71-72 '61. (MIRA 14:4)

1. Iz Karatasskoy rayonnoy bol'nitsy Yuzhno-Kazakhstanskoy oblasti (glavnyy vrach rayona - K.D. Dzhansbekov).
(APPENDICITIS) (VISCERA—ABNORMITIES AND DEFORMITIES)

VELIKORETSKIY, D.A.; LORIYE, K.M.; FINKEL', I.I.; GRIGORCHUK, Yu.F.; BERGER, L.Kh.; UTROBINA, V.V.; KHARCHENKO, V.P.; MESHCHERYKOV, A.V., student V kursa; OBEREMCHENKO, Ya.V., kand.med.nauk; NIKITIN, A.V.; MUKHOYEDOVA, S.N.; KUSMARTSEVA, L.V., assistent; KUZNETSOV, V.A., dotsent; KUKHTINOVA, R.A., assistent; BONDARENKO, Ya.D. (g. Fastov); KURTASOVA, L.V. (g. Fastov); PEVCHIKH, V.V.; CHURAKOVA, A.Ye.; BABICH, M.M.; KUZ'MIN, K.P.; PAVLOV, S.S.; SHEVLYAKOV, L.V., kand. med.nauk; IGNAT'YEVA, O.M.; ZEYGERMAKHER, G.A.; GUTKIN, A.A.; POLYKOVSKIY, T.S.

Resumes. Sov.med. 25 no.11:147-152 N '61. (MIRA 15:5)

1. Iz Instituta grudnoy khirurgii AMN SSSR (for Velikoretskiy, Loriye, Finkel'). 2. Iz bol'nitsy No.3 Gorlovki Stalinskoy oblasti (for Grigorchuk). 3. Iz Tyumenskoy oblastnoy bol'nitsy (for Berger, Utrobina). 4. Iz Karatasskoy rayonnoy bol'nitsy Yuzhno-Kazakhstanskoy oblasti (for Kharchenko). 5. Iz Gospital'noy khirurgicheskoy kliniki I Moskovskogo ordena Lenina meditsinskogo instituta imeni Sechenova (for Meshcheryakov). 6. Iz kliniki propedevticheskoy terapii Stalinskogo meditsinskogo instituta na baze oblastnoy klinicheskoy bol'nitsy imeni Kalinina (for Oberemchenko). 7. Iz kliniki gospital'noy terapii Voronezhskogo meditsinskogo instituta (for Nikitin, Mukhoyedova). 8. Iz kafedry obshchey khirurgii Kishinevskogo meditsinskogo instituta (for Kusmartseva).

(Continued ~~on next card~~)

SHABAD, L.M., prof.; [illegible], [illegible]; [illegible] SOVETKIN, [illegible], [illegible] nauk; KUZNETSOVA, V.I., [illegible], [illegible] nauk

Proceedings of the 9th meeting of the Scientific Society of Oncologists of Moscow and Moscow Region. Vop. onk. 11 no.4: 103-105 '65. (MIRA 18:7)

NOVIKOV, [illegible], [illegible]; [illegible], V. [illegible], [illegible] BELIKOV, V.F.

The 95th meeting of the [illegible] of Geologists of Moscow and its environs. Byul. MOIP. Otd. geol. 40 no.[illegible] 1965.

(MIRA 18:8)

KHARCHENKO, V.S.

Immediate and late results of conservative therapy of congenital hip dislocations in children. Ortop.,travm.i protez. 20 no.11: 54-57 N '59. (MIRA 13:4)

1. Iz Stalinskogo nauchno-issledovatel'skogo instituta travmatologii, ortopedii i protezirovaniya (direktor - kand.med.nauk T.A. Revenko) i detskogo ortopedicheskogo otdeleniya Oblastnoy travmatologicheskoy bol'nitsy.

(HIP fract. & disloc.)

KHARCHENKO, V.S., inzh.; OKHMUSH, M.Ye. [Okhmush, M.IE.], inzh.

Mechanizing the processing of corncobs for cattle feeding. Mekh. sil'. hosp. 14 no.4:23-25 Ap '63. (MIRA 16:10)

KHARCHENKO, V.S.

Annotations and author's abstracts. Pediatriia 41 no.11:90 N'62 (MIRA 17:4)

1. Iz Donetskogo nauchno-issledovatel'skogo instituta travmatologii i ortopedii (dir. - kand. med. nauk T.A. Revenko).

KHARCHENKO, V.S.; TRIFONOVA, A.D.

Anomaly of the external meniscus of the knee joint in a child. Ortop., travm. i protez. 26 no.7:57-58 Jl '65. (MIRA 18:7)

1. Iz Donetskogo instituta travmatologii (direktor - prof. T.A.Revenko). Adres avtora: Donetsk (obl.) ul. Artema, d.106, Institut travmatologii.

ACC NR: AR6030485 SOURCE CODE: UR/0275/66/000/006/B009/B009

AUTHOR: Starodubtsev, S. V.; Kharchenko, V. V.; Lyutovich, A. S.; Prutkin, V. P.

TITLE: Investigation of distribution of doping impurity in epitaxial silicon films

SOURCE: Ref. zh. Elektronika i yeye primeneniye, Abs. 6B59

REF SOURCE: Sb. Simpozium. Protsessy sinteza i rosta kristallov i plenok poluprovodnik. materialov, 1965. Tezisy dok. Novosibirsk, 1965, 37-38

TOPIC TAGS: epitaxial ~~silicon~~ Germanium, silicon semiconductor, ~~silicon~~ metal film

ABSTRACT: Epitaxial films produced by hydrogen reduction of silicon tetrachloride on silicon backing were studied. A stable phosphorus isotope introduced in the source tetrachloride as PCl_3 was reduced by hydrogen and, along with the silicon, passed to the epitaxial layer. The resulting doped epitaxial films were irradiated with thermal neutrons of 10^9 per cm^2 density in a reactor channel. The stable phosphorus isotope was turned into radioactive P^{32} whose distribution in the film was studied in a single-channel B-2 analyzer by the method of taking off the layers. The nature of the resulting distribution curves is discussed. From the author's abstract. [Translation of abstract]

SUB CODE: 09, 11

Card 1/1 UDC: 621.315.592:548.552:546.28:548.28

ACC NR: AR6025735 EWP(t)/ETI IJP(c) JD/GG

SOURCE CODE: UR/0058/66/000/004/A069/A069

AUTHOR: Starodubtsev, S. V.; Kharchenko, V. V.; Lyutovich, A. S.; Prutkin, V. P.

TITLE: Study of the character of the distribution of the dopant in epitaxial silicon films

SOURCE: Ref. zh. Fizika, Abs. 4A583

REF SOURCE: Sb. Simpozium. Protsessy sinteza i rosta kristallov i plenok poluprovodnik. materialov, 1965. Tezisy dokl. Novosibirsk, 1965, 37-38

TOPIC TAGS: silicon, epitaxial growing, semiconducting film, tracer study, neutron irradiation, thermal neutron/ B-2 single channel analyzer

ABSTRACT: A radioactive tracer method was used to investigate the distribution of P in epitaxial films obtained by hydrogen reduction of silicon tetrachloride on Si substrates. A stable isotope of P, introduced in the initial tetrachloride in the form of PCl_3, was reduced with hydrogen and carried together with the Si into the epitaxial layer. The films were irradiated by a flux of thermal neutrons with density 10^9 cm^{-2}. The stable isotope of P then went over into the radioactive isotope (P^{32}), whose distribution in the body of the film was investigated by the removal-of-layers method, using a single-channel B-2 analyzer. The character of the distribution curves obtained by this method is discussed. [Translation of abstract]

SUB CODE: 20

Card 1/1

EWT(m)/T/EWP(t) IJP(c) JD

ACC NR: AP6008553 SOURCE CODE: UR/0166/66/000/001/0085/0086

AUTHOR: Starodubtsev, S.V.; Kharchenko, V.V.; Prutkin, V.P.; Lyutkovich, A.S.

ORG: Physics Technical Institute, AN UzSSR (Fiziko-tekhnicheskiy institut AN UzSSR)

TITLE: Diffusion of phosphorus in epitaxial silicon

SOURCE: AN UzSSR. Izvestiya. Seriya fiziko-matematicheskikh nauk, no. 1, 1966, 85-86

TOPIC TAGS: epitaxial growing, single crystal, phosphorus, silicon

ABSTRACT: The authors investigated the diffusion of phosphorus in epitaxial layers of silicon grown from the gas phase by means of the reaction of hydrogen reduction of silicon chloride. The experiments were performed on single crystal films with a specific resistance of the order of 90 ohm·cm grown at 1200C on silicon base layers. The results show that the phosphorus diffusion coefficient in epitaxial film at 1000C is $3 \cdot 10^{-12}$ cm^2/sec, and differs considerably from the phosphorus diffusion coefficient at the same temperature in single crystals of silicon ($3 \cdot 10^{-14}$ cm^2/sec). This, apparently, is related to the characteristics of the structure of epitaxial films. Orig. art. has: 1 figure.

SUB CODE: 20,07 SUBM DATE: 08Aug65 / ORIG REF: 001 / OTH REF: 006

Card 1/1

KHARCHENKO, Ye.

Standardizing tolerances in the manufacture of welded ship structures. Mor. flot 15 no.6:24 Je '55. (MLRA 8:8)

1. Inspektor Chernomorskoy inspektsii Morskogo Registra SSSR. (Shipbuilding) (Welding--Standards)

KHARCHENKO, Ye.

Spot welding in the construction of self-propelled barges. Mor.flot 19 no.10:34 O '59. (MIRA 13:2)

1. Inzhener-inspektor Registra SSSR.
(Barges) (Electric welding)

KHARCHENKO, Ye., inzh.

Hand welding by submerged arc in ship repairs. Mor.flot 20 no.10:34 O '60. (MIRA 13:10)

1. Starshiy inspektor Registra SSSR.
(Ships--Maintenance and repair) (Electric welding)

KHARCHENKO, Ye., inzh.

Should a manually operated driving gear be installed on merchant ship winches. Mor. flot 20 no.11:44 N '60. (MIRA 13:11)
(Winches)

MIKHCHENKO, YU. I.

Fruit Culture - Crimea

Fruit tree forests in the Crimea. Leskhoz. 5 No. 4 1952.

9. Monthly List of Russian Accessions, Library of Congress, August 1953, Uncl.

ZEMSKOV, Pavel Ivanovich; YAKUSHINA, Yelena Nikolayevna; KHARCHENKO, Yevgeniy Nikolayevich; ZUBENKO, I.F., dots., otv. red.; ALYAB'YEV, N.Z., red.

[Materials and coatings for the piston rings of motor-vehicle and tractor engines] Materialy i pokrytiia porshnevykh kolets avtotraktornykh dvigatelei. Khar'kov, Izd-vo Khar'kovskogo univ., 1963. 129 p. (MIRA 17:8)

ZEMSKOV, P.I., inzh.; POGORELOV, I.D., inzh.; YAKUSHINA, Ye.N., inzh.; KHARCHENKO, Ye.N., inzh.

Welding and soldering during the repair of AL10V aluminum alloy parts. Svar. proizv. no.8:40-41 Ag '63. (MIRA 17:1)

1. Khar'kovskiy zavod "Serp i molot".

ZEMSKOV, P.I.; YAKUSHIN, Ye.N.; KHARCHENKO, Ye.N.

Wearing resistance of crankshafts from high-strength cast iron. Trakt. i sel'khozmash. no.1:41-43 Ja '64. (MIRA 17:4)

1. Khar'kovskiy traktornyy zavod.

ZEMENKOV, P.I.; KHARCHENKO, Ye.N.; YAKUSHINA, Ye.N.

High-strength cast iron for motor crankshafts. L'.'. prakt. 5:28-31 My '61. (MIRA 14:5)

ATM 59955

[illegible] 000-25,000 revolutions the [illegible] number to [illegible] original value. There was little wear [illegible] studies at [illegible] showed the coefficient of friction [illegible] wear at 30-40 [illegible]. Its coefficient of friction [illegible] increase- [illegible] of [illegible] from 0.5-1.5 m/sec. The [illegible] the least the [illegible] of friction and wear on the capron [illegible] 1-54 gra- [illegible] the least wear of all the materials [illegible] art. has 5 [illegible] tables.

[illegible] none

SUBMITTED: 00 [illegible] ENCL: 00 [illegible]

[illegible] 000 OTHER: 000

ZEMSKOV, P.I., kand. tekhn. nauk, dotsent; YAKUSHINA, Ye.N., inzh.; KHARCHENKO, Ye.N., inzh.

Capron bearings of motor-vehicle and tractor engines. Izv. vys. ucheb. zav.; mashinostr. no.12:182-191 '64.

(MIRA 18:3)

1. Khar'kovskiy institut inzhenerov kommunal'nogo khozyaystva.

ZEMSKOV, P.I., inzh.; YAKUSHINA, Ye.N., inzh.; KHARCHENKO, Ye.N., inzh.; KHAVINA, R.B., inzh.

Engine pinions made from high-strength cast iron. Mashinostroenie no.2:12-14 Mr-Ap '65. (MIRA 18:6)

ZEMSKOV, P.I.; POGORELOV, I.D.; KHARCHENKO, Ye.N.; YAKUSHINA, Ye.N.

Devices for measuring the hardness of shaped parts. Stan. i instr. 36 no.4:37-38 Ap '65. (MIRA 18:5)

ZEMSKOV, P.I., kand. tekhn. nauk; KHARCHENKO, Ye.N., inzh.; YAKUSHINA, Ye.N., inzh.; KHAVINA, R.B., inzh.

Engine gearing made of high-strength cast iron. Lit. proizv. no.1:9-11 Ja '66. (MIRA 19:1)

ZEMSKOV, P.I., kand.tekhn.nauk; KHAVINA, R.B., inzh.; DEGTYAREVA, O.F., inzh.; YAKUSHINA, Ye.N., inzh.; KHARCHENKO, Ye.N., inzh.; ANISHCHENKO, V.V., inzh.

Capron pinions for motor-vehicle engines. Mashinostroenie no.6:42-44 N-D '65. (MIRA 18:12)

ZEMSKOV, P.I., dotsent; YAKUSHINA, Ye.N., inzh.; KHARCHENKO, Ye.N., inzh.; KHAVINA, R.B., inzh.; DEGTYAREVA, O.F., inzh.

Cermet piston rings. Izv. vys. ucheb. zav.; mashinostr. no. 10: 123-128 '65 (MIRA 19:1)

1. Submitted April 17, 1964.

ACC NR: AP6029220 (A, N) SOURCE CODE: UR/0145/66/000/004/0059/0063

AUTHOR: Zemskov, P. I. (Docent); Yakushina, Ye. N. (Engineer); Kharchenko, Ye. N. (Engineer); Khavina, R. B. (Engineer); Degtyareva, O. F. (Engineer)

ORG: None

40
B

TITLE: Improving the durability of chrome-plated piston rings

SOURCE: IVUZ. Mashinostroyeniye, no. 4, 1966, 59-63

TOPIC TAGS: engine piston, engine cylinder, carburization, chromium plating

ABSTRACT: Methods are proposed for increasing the wear resistance of the upper piston rings in tractor engines by carburizing the chrome-plated surface. The surfaces of the rings and cylinder were knurled before chrome plating. The knurl depressions were tetrahedral pyramids with a base of 0.5×0.5 mm located 2 mm apart with a depth of 0.18--0.25 mm. After chrome plating, the rings were chemically heat treated in a solid carburizer of the following composition: carbon--50%, Na_2Co_3--20%, Fe (filings)--30%. The heat treatment was continued for 5 hours at 950°C. X-ray structural analysis showed a gray layer of chromium carbide on the metal surface. This layer was 60-80 μ thick and was not etched by a 3-4% solution of HNO_3 or a 15-20% solution of HCl. The carbide layer is heat- and acid-resistant with a hardness of 1400-1600 kg/cm^2. It was found that carburization increases the service life of chrome-plated piston rings by a factor of 1.3-2.2. The article was presented for publication by A. I. Pogorelov, Lecturer at Kharkov Municipal Engineering Institute. Orig. art. has: 3 figures. 1 table.

SUB CODE: ~~11~~ 10, 13/ SUBM DATE: 18Jun64/ ORIG REF: 002

Card 1/1

UDC: 62-47/-242

TREGUBOVA, A.S.[Trehubova, A.S.]; KHARCHENKO, Ye.T.; KISILENKO, O.A.[Kysylenko, O.A.]; SMIRNOVA, A.I.[Smyrnova, A.I.]; MIKHAYLOVA, O.D.[Mykhailova, O.D.]; KARASENKO, A.P.; MOROZ, V.F.; GUK, Yu.I.[Huk, IU.I.]; AYZENBERG, M.M. MARKOV, V.I., red.

[Agroclimatic manual on Zhitomir Province] Agroklimatychnyi dovidnyk po Zhytomyrs'kii oblasti. Kyiv, Derzhsil'hospvydav URSR, 1959. 89 p. (MIRA 17:6)

1. Ukraine. Upravlinnya hidrometeorologichnoy sluzhby.

L 10134-63

ACCESSION NR: AP3000161

S/0141/63/006/002/0373/0379

45

AUTHOR: Ivanov, V. N.; Kharchenko, Ye. T.

TITLE: Wave dispersion in a helix of rectangular cross-section

SOURCE: Izvestiya vysshikh uchebnykh zavedeniy, radiofizika, v. 6, no. 2, 1963, 373-379

TOPIC TAGS: wave dispersion, helical delay system

ABSTRACT: The hitherto known theory of the rectangular helix used as a delay system (in microwave tubes) has covered only the case when one wave-length extends over a few turns and the current-phase variation within one turn can be neglected. However, if such a delay system is used in a TW tube, the phase within one turn will change materially; hence, the field distribution over the cross-section will be asymmetrical. The article investigates mathematically the dispersion properties of a rectangular helix in the case of asymmetrical waves. An integro-differential dispersion equation if developed for the waves propagating between two aniso-tropically conducting planes. Then a dispersion equation is derived for symmetrical and asymmetrical wave in a rectangular

Card 1/2

L 10134-63

ACCESSION NR: AP3000161

helix that has a constant helix angle and a high ratio between its cross-section sides. Orig. art. has: 17 equations and 2 figures.

ASSOCIATION: Rostovskiy-na-Donu gosudarstvenny*y universitet (Rostov-na-Donu State University)

SUBMITTED: 03May62 DATE ACQ: 12Jun63 ENCL: 00

SUB CODE: SD NR REF SOV: 005 OTHER: 002

Card 2/2

ACC NR: AT7003991 SOURCE CODE: UR/0000/66/000/000/0034/0042

AUTHOR: Tsygikalo, A. A.; Kharchenko, Yu. A.

ORG: none

TITLE: Testing the elements of an electrostatic-generator accelerating tube with ring insulators made from new materials

SOURCE: Mezhvuzovskaya konferentsiya po elektronnym uskoritelyam. 5th, Tomsk, 1964. Elektronnyye uskoriteli (Electron accelerators); trudy konferentsii. Moscow, Atomizdat, 1966, 34-42

TOPIC TAGS: electrostatic generator, particle acceleration, accelerating tube

ABSTRACT: The use of slanted electrodes in accelerating tubes (Van de Graaff et al., Nature, 195, 1292, 1962; E. Koltay, Phys., v. 4, no. 2, 66, 1963) permitted drawing the field strength of the tube closer to the electric strength of a single gap. The results of testing tube elements with ring insulators made from non-alkali glass, pyroceram, and epoxy compound are reported; the elements were

Card 1/2

KHARCHENKO, Z.Ya.

Ukrainian road builders in the first year of the seven-year plan. Avt.dor. 22 no.12:5-7 D '59. (MIRA 13:4)

1. Zamestitel' ministra avtomobil'nogo transporta i shosseynykh dorog USSR.
(Ukraine--Road construction)

KHARCHENKO, Z.Ya.

Improve the organization of the maintenance and repair of roads. Avt. dor. 23, no.4:3-4 Ap '60. (MIRA 13:6)

1. Zamestitel' ministra avtomobil'nogo transporta i shosseynykh dorog USSR.

(Roads--Maintenance and repair)

KHARCHENKOVA, YE. P.

24153 KHARCHENKOVA, YE. P. Voprosu ob issledovanii sol'Nosti drevesno-kustarnikovykh porod, prinyatykh v stepnom lesorazve denii. Problemy sov. pochvovedeniya, sb. 15, 1949, S. 146-67. - Bibliogr: 12 Nazv.

SO: Letopis, No. 32, 1949.

KHARCHEV, A.G., kand.filosof.nauk; LEYMAN, I.I.

Methodological seminars held by Leningrad scientists. Vest. AN SSSR 34 no. 1:45-47 Ja '64. (MIRA 17:5)

1. Leningradskaya kafedra filosofii AN SSSR.

MAGULA, V.E., kand. tekhn. nauk; KHARCHEV, K.M., inzh.

Simplified diagram for load pillar strength calculations.
Sudostroenie 25 no.10:20-22 O '59. (MIRA 13:2)
(Naval architecture) (Strains and stresses)

KIZEVETTER Ye.N.; KLEYN, P.N.; KHARCHEV, M.K. [deceased]; VOLOBRINSKIY, S.D.; GRODSKIY, S.Ye.; YERMILOV, A.A.; KAYALOV, G.M.; LIVSHITS, D.S.; MAKSIMOV, A.A.; MESHEL', B.S.; MUKOSEYEV, Yu.L.; OGORODNOV, S.I.; ROZENBERG, V.A.; SHRAYBER, L.G.; ZALESSKIY, Yu.Ye., retsenzent; IOKHVIDOV, E.S., retsenzent; FEDOROV, A.A., retsenzent; SAVEL'YEV, V.I., red.; LARIONOV, G.Ye., tekhn. red.

[Temporary instructions for determining the electrical loads of industrial enterprises] Vremennye rukovodiashchie ukazaniia po opredeleniiu elektricheskikh nagruzok promyshlennykh predpriiatii. Moskva, Gosenergoizdat, 1962. 45 p. (MIRA 16:2)

1. Russia (1923- U.S.S.R.) Glavnoye energeticheskoye upravleniye. 2. Leningradskoye otdeleniye Gosudarstvennogo proyektnogo instituta tyazheloy promyshlennosti (for Kizevetter, Kleyn, Kharchev). 3. Komissiya po elektricheskim nagruzkam Nauchno-tekhnicheskogo obshchestva energeticheskoy promyshlennosti (for Volobrinskiy, Grodskiy, Yermilov, Kayalov, Livshits, Maksimov, Meshel, Mukoseyev, Ogorodnov, Rozenberg, Shrayber). (Electric power distribution)

Kharchev, M. K. - obituary PROM. ENERG. 12 NO 12 p 33 D'1957

KHARCHEVA, A. I.

36646. Nekotoryye Osobennosti Trakheynoy Sistemy Gubonogikh Mnogonozhek (Chilopoda). Doklady Akad. Nauk SSSR, Novaya Seriya, T. LXIX, No. 4, 1949, c. 589-92

SO: Letopis' Zhurnal'nykh Statey, Vol. 50, Moskva, 1949

KHARCHEVA, A.

Bee Culture

"Changing the nature of the bee." T. V. Vinogradov. Pchelovodstvo 29, No. 1, 1952
Reviewed by A. Kharcheva.

9. Monthly List of Russian Accessions, Library of Congress, May 1953, Uncl.

KHARCHEVA, A. I.

"Changes in the Reproductive System of Queen Bees in Relation to Their Development and Maintenance." Cand Biol Sci, Moscow Order of Lenin Agricultural Academy imeni K. A. Timiryazev, Moscow, 1955. (KL, No 13, Mar 55)

So: Sum. No 670, 29 Sept 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

BRADIS, Vladimir Modestovich; MINKOVSKIY, Vladimir L'vovich; KHARCHEVA, Avgusta Konstantinovna; LEPESHKINA, N.I., red.; KOVALENKO, V.L., tekhn.red.

[Errors in mathematical judgments] Oshibki v matematicheskikh rassuzhdeniiakh. Izd.2., perer. Moskva, Gos.uchebno-pedagog. izd-vo M-va prosv.RSFSR, 1959. 175 p. (MIRA 13:4)
(Mathematics--Study and teaching)

SEMENOV, A.D.; STREPETOVA, T.N.; TURUTANOVA, N.N.; KHARCHEVA, K.A.

Clinical aspect and course of pulmonary tuberculosis in elderly persons. Trudy TSIU 63:30-35 '63. (MIRA 17:9)

1. Kafedra legochnogo tuberkuleza Leningradskogo instituta usovershenstvovaniya vrachey imeni Kirova i Leningradskiy nauchno-issledovatel'skiy institut tuberkuleza.

KHARCHEVA, K.A., kand. med. nauk.

Length of treatment of tuberculosis with artificial pneumothorax; review of the literature. Probl. tub. 35 no.6:101-104 '57. (MIRA 12:1)

1. Iz kafedry legochnogo tuberkuleza (zav. - prof. A.D. Semenov). Leningradskogo instituta usovershenstvovaniya vrachey.
(PNEUMOTHORAX, ARTIFICIAL
indic. & duration of ther. (Rus))

KHARCHEVA, K.A.

Function of external respiration in patients with a therapeutic pneumothorax. Probl. tuberk. 41 no.2:13-18 '63.
(MIRA 17:2)

1. Iz kafedry legochnogo tuberkuleza Leningradskogo instituta usovershenstvovaniya vrachey (zav. - prof. A.D. Semenov) i Leningradskogo instituta tuberkuleza.

KHARCHEVA, K.A., kand.med.nauk

Short-term pneumothorax in the treatment of pulmonary tuberculosis [with summary in French]. Probl.tub. 36 no.1:33-37 '58. (MIRA 11:4)

1. Iz kafedry legochnogo tuberkuleza (zav. - prof. A.D.Semenov) Leningradskogo instituta usovershenstvovaniya vrachey imeni S.M. Kirova.

(PNEUMOTHORAX, ARTIFICIAL
short-term ther. alone & with chemother. (Rus))

KHARCHEVA, K. A., Dr. Medic. Sci. (diss) "Materials on Methods of Introduction and Periods of Treatment of Pneumothorax in Combination with Anti-bacterial Therapy," Leningrad, 1961, 27 pp. (1st Leningrad Med. Inst.) 300 copies (KL Supp 12-61, 283).

ZARNITSKAYA, B.M., starshiy nauchnyy sotrudnik; KHARCHEVA, K.A., dotsent

Functional disorders of the nervous system in pulmonary tuberculosis; based on data from an overall study. K izuch.roli nerv.sist.v pat., immun.i lech.tub. no.2:84-91 '61. (MIRA 15:10)

1. Iz otdeleniya fizioterapii (zav. - B.M.Zarnitskaya) i kafedry legochnogo tuberkuleza Gosudarstvennogo instituta dlya usovershenstvovaniya vrachey (zav. - prof. A.D.Semenov).
(TUBERCULOSIS) (NERVOUS SYSTEM)

KHARCHEVA, K.A., dotsent

Effect of pneumoperitoneum on lung tonus. K izuch.roli nerv. sist.v pat., immun.i lech.tub. no.2:360-364 '61. (MIRA 15:10)

1. Iz kafedry legochnogo tuberkuleza (zav. kafedroy - prof. A.D. Semenov) Leningradskogo gosudarstvennogo instituta dlya usovershenstvovaniya vrachey imeni S.M.Kirova (dir. - prof. N.I. Blinov) i Leningradskogo instituta tuberkuleza (dir. - prof. A.D. Semenov).

(LUNGS) (PNEUMOPERITONEUM) (TUBERCULOSIS)

KHARCHEVA, K. A.

Late results of the treatment of pulmonary tuberculosis with artificial pneumothorax. Probl. tub. 40 no.5:21-27 '62. (MIRA 15:7)

1. Iz kafedry logochnogo tuberkuleza (zav. - prof. A. D. Semenov) Leningradskogo Gosudarstvennogo instituta dlya usovershenstvovaniya vrachey imeni S. M. Kirova (dir. - dotsent A. Ye. Kiselev) i Leningradskogo instituta tuberkuleza (dir. - prof. A. D. Semenov)

(PNEUMOTHORAX) (TUBERCULOSIS)

KHARCHEVA, K.A., dotsent (Leningrad)

Morphological changes in a collapsed lung in patients with pulmonary tuberculosis treated by means of an artificial pneumothorax; according to data of a radiographic study. Vrach. delo no.3:16-21 Mr '63. (MIRA 16:4)

1. Leningradskiy gosudarstvennyy institut dlya usovershenstvovaniya vrachey.

(LUNGS—COLLAPSE) (PNEUMOTHORAX)

GOLOSHCHAPOV, V.A.; KHARCHEVNIKOV, A., red.; LEBEDEV, A., tekhn. red.

[Accounting handbook] Spravochnik po bukhgalterskomu uchetu. Izd.3., perer. Moskva, Gosfinizdat, 1961. 532 p. (MIRA 14:6)
(Accounting)

GARETOVSKIY, Nikolay Viktorovich; KHARCHEVNIKOV, A., otv. red.

[Incentive funds of enterprises] Pooshchritel'nye fondy predpriiatii. Moskva, Finansy, 1964. 222 p.
(MIRA 17:8)

KHARCHEVNIKOV, B.F., inzh.; MONASTIKHIN, A.A., inzh.

Semiautomatic die for embossing. Mashinostroenie no.4:63 Jl-Ag '64. (MIRA 17:10)

KUTUKOV, A.I., red.; ZAYTSEV, A.P., red.; DROGALIN, G.V., red.; POLESIN, Ya.L., red.; KOSTYUKOV, N.N., red.; KURAS, D.M., red.; LUZHNIKOV, A.M., red.; RODIONOV, I.S., red.; BLOKH, S.S., red.; SULTANOV, D.K., red.; BIBILUROV, V.P., red.; PETROV, A.I., red.; KHARCHEVNIKOV, N.M., red.; ANDRIANOV, K.I., red.; GADZHINSKAYA, M., red.izd-va; BERESLAVSKAYA, L.Sh., tekhn.red.

[Safety regulations for petroleum and gas producing industries] Pravila bezopasnosti v neftegazodobyvaiushchei promyshlennosti. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1960. 123 p. (MIRA 14:3)

1. Russia (1917- R.S.F.S.R.) Gosudarstvennyy komitet po nadzoru za bezopasnym vedeniem rabot v promyshlennosti i gornomu nadzoru. 2. TSentral'nyy apparat Gosgortekhnadzora RSFSR (for Kutukov, Zaytsev, Drogalin, Polesin, Kostyukov, Kuras, Luzhnikov, Rodionov, Blokh). 3. Vsesoyuznyy nauchno-issledovatel'skiy institut po tekhnike bezopasnosti (for Sultanov). 4. Upravleniya ukrugov Gosgortekhnadzora RSFSR (for Bibilurov, Petrov, Kharchevnikov). 5. TSentral'nyy komitet profsoyuza rabochikh neftyanoy i khimicheskoy promyshlennosti (for Andrianov).

(Oil fields--Safety measures)
(Gas industry--Safety measures)

KHARCHEVNIKOV, N.N., inzh.

New receiving hopper for the SM-889 ladle mixer. Stroi. mat. 10 no.10:12 O '64. (MIRA 18:2)

DZANASHVILI, G.F.; KHARCHEVNIKOV, N.Ye.

Diamond grinding of chip-breaking holes. Stan. i instru. 36 no.1:37-38 Ja '65. (MIRA 18:4)

KHARCHEVNIKOV, B.

Safety rods used in inflating tires. Avt.transp. 35 no.4:31 Ap '57. (MLRA 10:5)

(Automobiles--Tires)

1. KHARCHEVNIKOV, S., KOTAREV, N., SOLOBILOV, N.

2. USSR (600)

4. Coal - Transportation

7. Strengthening our cooperation in the performance of labor tasks. Mast. Ugl. 1, no. 8, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

ACC NR: AP7005599 (N) SOURCE CODE: UR/0413/67/000/002/0035/0035

INVENTOR: Kal'ner, D. A.; Smirnov, Ye. V.; Kharchevnikov, V. P.

ORG: none

TITLE: Method of strengthening structural and tool steels. Class 18, No. 190394 [announced by the Central Scientific Research Institute of Ferrous Metallurgy im. I. P. Bardin (Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1967, 35

TOPIC TAGS: structural steel, tool steel, steel property, ~~strengthening~~ yield strength, martensite

ABSTRACT: This Author Certificate introduces a method of strengthening structural and tool steels, which consists of annealing followed by quenching to provide martensite, low tempering, and deformation, followed by low-temperature aging. To increase the steel yield strength, the deformation is done by compression. [ND]

SUB CODE: 13/11/ SUBM DATE: 31Mar64/ ATD PRESS: 5117

Card 1/1 UDC: 621.785.796:621.787:621.785.78

KHARCHEVNIKOV, V.V.

Putting into operation and maintenance of a high-pressure heat and electric power station. Bum. prom. 38 no.10:21-23 O '63. (MIRA 16:11)

1. Nachal'nik teploelektrotsentrali No.1 Kotlasskogo sul'fitno-tsellyuloznogo kombinata.

KHARCHEVNIKOVA, A. V.

Apr 47

USSR/Chemistry - Condensation, chemical
Chemistry - 1, 2-dichloroethane

"The Polycondensation Products of 1, 2-dichloroethane With Benzene," V. V. Korshak, G. S. Kolesnikov, A. V. Kharchevnikova, 3 pp

"CR Acad Sci" Vol XVI, No 2

Tables of characteristics. Structural formulae.

PA 11T72

KHARCHEVNIKOVA, A. V.

High-molecular weight compounds. XV. Products of polycondensation of 1,2-dichloroethane with benzene. V. V. Korshak, G. S. Kolesnikov, and A. V. Kharchevnikova (Mendeleev Chem. Tech. Inst., Moscow). *J. Gen. Chem.* (U.S.S.R.) 18, 193-204(1948) (in Russian). — The reaction of C_6H_6 and $(CH_2Cl)_2$ in the presence of $AlCl_3$ was shown to be affected by variation of the relative amts. of the components. Oxidation of the polyphenylethyl (polycondensation product) by Cr oxide gives terephthalic acid, indicating that the polymer is made of Ph nuclei joined by CH_2CH_2 links in para positions. C_6H_6 (264 g.) and 50 g. $(CH_2Cl)_2$ were treated with 67.4-6.7 g. $AlCl_3$ 4.5 hrs. on a steam bath; the yield of the polymer dropped with smaller amts. of $AlCl_3$ (from 37.7 g. to 15 g.) but its nature was not changed; it was still a homogeneous mass, sol. in C_6H_6. In a 2nd series the $AlCl_3$ and C_6H_6 were held const. (amts. not given) while the $(CH_2Cl)_2$ was varied from 25 g. to 500 g. (mol. ratio to C_6H_6 from 13.5 to 0.67); as the amt. of the dichloride increases, the amt. of $(PhCH_2)_2$ drops and reaches zero at mol. ratios below 1 (the reaction time had to be reduced from 4.5 hrs. to 1-2.5 hrs. in these runs because of excessive foaming); the amt. of the polymer, however, constantly rises, from 6.2 g. to 300 g. Only when the ratio of C_6H_6 to the dichloride drops lower than 1.1 does the polymer change its properties; it becomes insol. in C_6H_6. The mol. wt. of the polymer (by viscosity in benzene) remains in the 1200-1300 range until the above ratio reaches 1.68, when the mol. wt. of the product climbs to 2100. When the polymer (3-7 g.) was boiled 7-18 hrs. with 80 c.c. H_2O, 100 g. H_2SO_4, and 40 g. $K_2Cr_2O_7$, only terephthalic acid was isolated. This also occurred when the benzene-insol. polymer was oxidized. The formation of the insol. polymer is readily explained by the fact that with the proportions used all the C_6H_6 reacts to form the polymer and the latter is then able to condense further with the dichloride through reaction in the ortho position, leading to 3-dimensional mols. by cross linking.

G. M. Kosolapoff

KRESHKOV, A.P.; SHEMYATENKOVA, V.T.; SYAVTSILLO, S.V.; PALAMARCHUK, N.A.
Prinimali ushastiye: KHVOSHCHEVSKAYA, A.A.; KHARCHEVNIKOVA, L.M.

Determination of phenyl radicals in organosilicon compounds. Zhur. anal. khim. 15 no.5:635-638 S-O '60. (MIRA 13:10)

1. D.I. Mendeleev Moscow Chemico-Technological Institute.
(Silicon organic compounds) (Phenyl group)

BERKOVICH, M.; KHARCHEVNIKOVA, S.; SHUBINA, L.; SIDOROVA, L.; VOZNESENSKAYA, N.

Using mineral pigments in making building materials. Stroi. mat. 4 no.4:33 Ap '58. (MIRA 11:5)
(Pigments) (Building materials)

KHARCHEVSKIY, A.I.; NIKOLAYEV, V.I.

Hall effect in the metamagnetic $MnAu_2$ alloy. Fiz. met. i metalloved. 12 no.3:372-375 S '61. (MIRA 14:9)
(Hall effect)
(Manganese-gold alloys--Magnetic properties)

KHABIKHARAI, N. V., Cand. Tech. Sci. (diss) "Criteria for Stability of Loading of Electrical Systems," Moscow, 1961, 16 pp. (Moscow Power Engr. Inst.) 150 copies (KL Supp 12-61, 275).

KHARCHIKOV

B-III-1

BC

Influence of liming chernozem on the yield and composition of wheat. V. N. KHARCHIKOV (Udobr. Urozhai, 1940, 2, 751—759).—At a H_2O content of 40% of the total H_2O-holding capacity the yield was sometimes increased by Ca or Ca + P. At 60% there was an increase on the unfertilised plots and on those fertilised with N or P. With N + P, liming gave negative results. The N content of the wheat increased whenever the Ca depressed the yield, and vice versa. CaO was more effective than $CaCO_3$ in connexion with NaH_2PO_4 when the amount of phosphate did not exceed the amount added with manure. With $(NH_4)_2SO_4$ the CaO produced little effect. CaO increased the N and P content of the grain.

CHEMICAL ABSTRACTS.

A10-11A METALLURGICAL LITERATURE CLASSIFICATION

KHARCHIKOV, P.K., polkovnik

Pay attention daily to sergeants in schools. Vest. protivovozd. obor. no.11:68-69 N '51. (MIRA 16:10)

(Russia--Army--Noncommissioned officers)

GORELIK, Z.A.; KHARCHIKOV, P.K.

History of the formation of salt structures and some problems in prospecting for oil in the Pripet fault. Geol. nefti i gaza 5 no.10:53-57 O '61. (MIRA 14:9)
(Pripet Valley—Petroleum geology)
(Salt domes)

L 01808-66 EWT(1)/FCC GW

ACCESSION NR: AT5021765 UR/3061/65/000/017/0056/0069

22
19
B+1

AUTHOR: Kharchilava, D. F.
44,55

TITLE: Correlation between variations in the amount of ozone in the atmosphere and the advection of air masses

SOURCE: Tiflis. Zakavkazskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut. Trudy, no. 17(23), 1965. Atmosfernaya tsirkulyatsiya i gidrometeorologicheskiy rezhim Zakavkaz'ya (Atmospheric circulation and hydrometeorological conditions of Transcaucasia), 56-69

TOPIC TAGS: weather forecasting, atmospheric front, atmosphere ozone, advection
12, 44,55 12, 44,55

ABSTRACT: Data obtained at nine ozonometric stations between the Arctic and the subtropics during the IGY and IGC on variations in the amount of ozone in the atmosphere indicate that there are definite correlations between the amount of ozone in the atmosphere and different types of fronts and synoptic situations. Thus, the amount of ozone in the atmosphere was found to vary with the passage of a

Card 1/2

L 01808-66

ACCESSION NR: AT5021765

3

cold, warm, or occluded front in various positions relative to a given station. The author proposes that variations in the amount of ozone in the atmosphere may be used as a criterion in forecasting fronts and in determining frontal circulation more accurately. Data obtained in July—September 1963 at Abastumani on the correlation between variations in the amount of ozone and the temperature in the troposphere and lower stratosphere are cited to corroborate the author's contention that a drop in temperature in the troposphere is accompanied by an increase in the amount of ozone in the atmosphere. Orig. art. has: 3 figures and 3 tables. [SP]

ASSOCIATION: Zakavkazskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut (Transcaucasus Scientific Research Hydrometeorological Institute)

SUBMITTED: 00 ENCL: 00 SUB CODE: ES

NO REF SOV: 004 OTHER: 001 ATD PRESS: 4086

Card 2/2

cyclones was at latitudes 40—50° N and the minimal at 30—40° N. For anticyclones the maximal deviation was at 40—70° N and the minimal at 70—80° N. In Europe the

Card 1/2

ACC NR: AT7001922

deviation of total content of ozone in cyclones is less than in Asia. For anticyclones the deviation is less in Asia than in Europe. The author considers vertical air motions to be the principal cause of the deviation: the total content of ozone increases in an upper-level cyclone as a consequence of descending air currents and it decreases in an upper-level anticyclone as a consequence of ascending air currents. Orig. art. has: 2 tables and 1 figure.

SUB CODE: 04/ SUBM DATE: none/ ORIG REF: 003/ OTH REF: 003

Card 2/2

KHARCHILAVA, D.F.

Some data on the total amount of atmospheric ozone according to observations conducted on mount Elbrus during the International Geophysical Year. Trudy Inst. geofiz. AN Gruz. SSR 21:261-267 '63.

(MIRA 18:12)

ACC NR: AT7004235 SOURCE CODE: UR/3061/66/000/022/0113/0125

AUTHOR: Kharchilava, D. G.

ORG: none

TITLE: Deviation of total content of atmospheric ozone in high cyclones and anticyclones

SOURCE: Tiflis. Zakavkazskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut. Trudy, no. 22, 1966. Voprosy gidrometeorologii (Problems of hydrometeorology), 113-125

TOPIC TAGS: cyclone, anticyclone, atmospheric ozone

ABSTRACT: Results of investigations of the deviation of the total content of ozone in the atmosphere in high cyclones and anticyclones are discussed. Statistical data showed that in most cases, the total content of the atmospheric ozone increases in high cyclones and decreases in high anticyclones. The latitudinal and seasonal course of the deviation of total content of the ozone was obtained, as well as continental variations in the deviation of total content of ozone in high cyclones and

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anticyclones. The qualitative characteristics of vertical air velocity in high cyclones and anticyclones is discussed. Orig. art. has: 7 figures and 5 tables. [Author's abstract]

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